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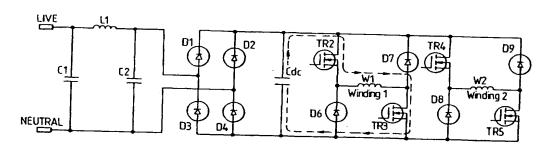
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(54) Title: POWER CONVERSION APPARATUS

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(57) Abstract: The invention provides a power conversion apparatus for converting power from an alternating source to de, comprising: an input stage for receiving power from the alternating source, which input stage includes an input filter (C1, C2, L1), rectifying means (D1, D2, D3, D4) for rectifying the alternating signal, a capacitor (Cdc) for storing energy from the rectified signal, an output for outputting power from the rectifying means (D1, D2, D3, D4) and the capacitor (Cdc) to the pulsed load, wherein the pulsed load has at least one switched winding (W1, W2) which receives power from the output, and wherein the capacitor (Cdc) is dimensioned such that the voltage across the capacitor (Cdc) falls below 15% of the nominal peak rectified voltage of the source during each cycle of the alternating source. A converter of this kind provides benefits in that the current drawn from the ac supply is able to fall within the limits imposed by EMC regulations, and constitutes a simpler and cheaper apparatus in comparison to known converters of a similar power rating.